



Indexed in: PubMed



an Open Access Journal by MDPI

# **Structural and Physical Properties of Liquid Crystals**

Guest Editors:

### Dr. Marli Ferreira

Centre for Organic and Nanohybrid Electronics, Silesian University of Technology, Konarskiego 22b, 44-100 Gliwice, Poland

### Prof. Dr. Aloir Antonio Merlo

Chemistry Institute, Federal University of Rio Grande do Sul, Bento Gonçalves 9500, Porto Alegre BR-91501970, RS, Brazil

Deadline for manuscript submissions:

20 July 2024

## **Message from the Guest Editors**

Liquid crystals (LCs) are a fascinating class of soft matter that exhibit features of fluidity and long-range order. Considering the outstanding importance of the development of new state-of-the-art liquid crystals, this Special Issue welcomes the submission of original research manuscripts, reviews embracing aspects of LC science and technology, and theoretical and experimental investigations ranging from mesogen design and synthesis to applications.

Potential topics include, but are not restricted to:

- Design, synthesis and characterization of rod-like (calamitic), bent-core and discotic LCs
- Functional liquid-crystalline polymers and supramolecular LCs
- LC display science and technologies, optical alignment, switching materials, optical information processing and devices
- Liquid crystalline properties beyond the biological applications
- Liquid-crystalline sensitizers for singlet oxygen formation and solar cells applications
- Investigation of triplet–triplet annihilation (TTA) in liquid crystals
- Liquid-crystalline thermally activated delayed fluorescence (TADF) emitters
- Environmental issues related to disposal of materials used in organic devices













an Open Access Journal by MDPI

## **Editor-in-Chief**

#### Prof. Dr. Maryam Tabrizian

1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada

2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, OC H3A 0C7, Canada

## **Message from the Editor-in-Chief**

Materials (ISSN 1996-1944) was launched in 2008. The iournal covers twenty-five comprehensive biomaterials, energy materials, advanced composites. advanced materials characterization, porous materials, manufacturing processes and systems. nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials. materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. Materials provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

## **Author Benefits**

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Ei Compendex, CaPlus / SciFinder, Inspec, Astrophysics Data System, and other databases

**Journal Rank:** JCR - Q2 (*Metallurgy & Metallurgical Engineering*) / CiteScore - Q2 (*Condensed Matter Physics*)

#### **Contact Us**